PCT/IB2003/005108

1

## SEQUENCE LISTING

<110> CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE UNIVERSITE DE LA MEDITERRANEE AIX MARSEILLE II SCHAFER-N UNIVERSITAET. HAMBURG ROUGON Geneviève TORREGROSSA Pascal SCHACHNER Melitta SCHAFER NIELSEN Claus

<120> Use of Poly-alpha2,8-sialic acid mimetic peptides to modulate NCAM functions

<130> F644PCT83

<160> 32

<170> PatentIn version 3.1

<210> 1

<211> 12

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 1

Asp Ser Pro Leu Val Pro Phe Ile Asp Phe His Pro 1 5 10

<210> 2

<211> 12

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

WO 2004/035609

2

```
<400> 2
```

Leu Trp Gln Pro Pro Leu Ile Pro Gly Ile Asp Phe 1 5 10

<210> 3

<211> 12

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 3

Gln Ile Glu Pro Trp Phe Thr Pro Glu Asp Phe Pro 1 5 10

<210> 4

<211> 12

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 4

Thr Arg Leu Ala Pro Leu Val Phe Pro Leu Asp Tyr 1 5 10

K1\_\_\_ 5

<211> 12

<212> PRT

<213> artificial sequence

<220>

<212> PRT

<220>

<213> artificial sequence

```
3
<223> synthetic peptide
<400> 5
Ser Trp Leu Gln Met Pro Trp Ala Leu Val Arg Thr
<210> 6
<211> 12
<212> PRT
<213> artificial sequence
<220>
<223> synthetic peptide
<400> 6
Glu Ile His Leu Arg Met Ile Lys Gln Ile Thr Ile
<210> 7
<211> 12
<212> PRT
<213> artificial sequence
<220>
<223> synthetic peptide
<400> 7
Trp His Leu Glu Tyr Met Trp Arg Trp Pro Arg Leu
<210> 8
<211> 12
```

WO 2004/035609

4

PCT/IB2003/005108

```
<223> synthetic peptide
```

<400> 8

Leu Ile Glu Gln Arg Leu Pro Lys His Ile Leu Thr 1 5 10

<210> 9

<211> 12

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 9

<210> 10

<211> 12

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 10

Thr Leu Ala Ser Gln Leu Ser Asn Thr Ser Ala Tyr 1 5 10

<210> 11

<211> 12

<212> PRT

<213> artificial sequence

<220> <223> synthetic peptide <400> 11 Ser Asp Gln Gly Val Asn Gly Ser Trp Ser Asn Pro <210> 12 <211> 13 <212> PRT <213> artificial sequence <220> <223> synthetic peptide <400> 12 Trp His Asn Trp Asn Leu Trp Ala Pro Ala Ser Pro Thr

<210> 13

<211> 12

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 13

Trp His Trp Gln Trp Thr Pro Trp Ser Ile Gln Pro

<210> 14

<211> 12

<212> PRT

WO 2004/035609 PCT/IB2003/005108

6

```
<213> artificial sequence
```

<220>

<223> synthetic peptide

<400> 14

Ile Lys Ser Pro Leu Thr Trp Leu Val Pro Pro Asp
1 5 10

<210> 15

<211> 12

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 15

Ser His Leu Asp Leu Ser Thr Gly His Arg Thr Ser  $1 \hspace{1cm} 5 \hspace{1cm} 10$ 

<210> 16

<211> 12

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 16

Cys Tyr Pro Leu Asn Pro Glu Val Tyr His Cys Gly
1 5 10

<210> 17

<211> 12

WO 2004/035609

7

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 17

Cys Trp Pro Leu Ser His Ser Val Ile Val Cys Gly  $1 \hspace{1cm} 5 \hspace{1cm} 10$ 

<210> 18

<211> 12

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 18

Cys Ser Ser Val Thr Ala Trp Thr Thr Gly Cys Gly
1 5 10

<210> 19

<211> 11

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 19

Cys Tyr Met Ala Ser Gly Val Phe Leu Cys Gly 1 5 10

<210> 20

8

```
<211> 12
```

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 20

Cys Trp Pro Leu Gly Pro Ser Thr Tyr Ile Cys Gly
1 5 10

<210> 21

<211> 12

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 21

Cys Ser Leu Ile Ala Ser Met Glu Thr Gly Cys Gly 1  $\phantom{000}$  5  $\phantom{000}$  10

<210> 22

<211> 12

<212> PRT

<213> artificial sequence

<220>

<223> synthetic peptide

<400> 22

Cys Ser Lys Tle Ala Ser Met Glu Thr Gly Cys Gly
1 5 10

WO 2004/035609 PCT/IB2003/005108

9

```
<210> 23
<211> 12
<212> PRT
<213> artificial sequence
<220>
<223> synthetic peptide
<400> 23
Cys Tyr Ile Gly Asp Pro Pro Phe Asn Pro Cys Gly
<210> 24
<211> 12
<212> PRT
<213> artificial sequence
<220>
<223> synthetic peptide
<400> 24
Cys Trp Pro Leu Gly Asp Ser Thr Val Ile Cys Gly
               5
<210> 25
<211> 12
<212> PRT
<213> artificial sequence
<220>
<223> synthetic peptide
<400> 25
```

Cys Pro Leu Arg Leu Ala Phe Thr Phe Gly Cys Gly

WO 2004/035609 PCT/IB2003/005108

10

20

```
<210> 26
<211> 12
<212> PRT
<213> artificial sequence
<220>
<223> synthetic peptide
<400> 26
Cys Thr Arg Met Ser His Gly Tyr Trp Ile Cys Gly
<210> 27
<211> 20
<212> DNA
<213> artificial sequence
<220>
<223> primer
<400> 27
ccctcatagt tagcgtaacg
<210> 28
<211> 12
<212> PRT
<213> artificial sequence
<23 · ·
<223> synthetic peptide
<400> 28
Pro Asp His Ile Phe Val Phe Ser Pro Asp Leu Pro
                                   10
```

11

```
<210> 29
<211> 13
<212> PRT
<213> artificial sequence
<220>
<223> synthetic peptide
<400> 29
Asp Ser Pro Leu Val Pro Phe Ile Asp Phe His Pro Cys
<210> 30
<211> 13
<212> PRT
<213> artificial sequence
<220>
<223> synthetic peptide
<400> 30
Pro Asp His Ile Phe Val Phe Ser Pro Asp Leu Pro Cys
<210> 31
<211> 7
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: PSA mimetic
     peptide
<400> 31
Asp His Gln Arg Phe Phe Val
<210> 32
<211> 7
<212> PRT
<213> Artificial Sequence
```

12

<220>
<223> Description of Artificial Sequence: PSA mimetic peptide

<400> 32
Ala His Gln Ala Ser Phe Val
1 5